

SMMUSD MATH 7 CURRICULUM GUIDE

SEMESTER 1			SEMESTER 2				
Fall FIAB Number System			Winter FIAB Ratios and Proportions				
Unit 1 6 weeks Aug-Sept-Oct YouCubed Week of Inspirational Math Stanford Accentuate the Negative – add, subtract, multiply, divide rational numbers and distributive property OpenUp Unit 5 Rational Number Arithmetic **DreamBox→ Fall FIAB Number System UNIT IABS for the year	Unit 2 6 weeks Oct - Nov Moving Straight Ahead – constant of proportionality, proportional relationships; solving equations and inequalities PT Linflower Seeds OpenUp U2: Introducing Proportional Relationships **DreamBox Percent Unit RP.3 ~ assign as long term assignment at start of year!	Unit 3 4 weeks Nov - Dec Stretching & Shrinking - scale factor, similar figures, and scale drawings OpenUp U1: Scale Drawings	Unit 4 5 weeks Jan - Feb Comparing & Scaling - proportions, percent, ratios, rates & unit rates Include: lessons on percent of change, discount, mark-up, simple interest, tip & tax, total cost Winter FIAB Ratios and Proportio PT Scale Proj OpenUp U4:Proportional Relationships and Percentages	Unit 5 3 weeks March Shapes & Designs – angle relationships & equations, area of polygons/ composite shapes Filling & Wrapping - area and circumference of circles OpenUp U7 - Angles, Triangles, and Prisms (Lessons 1-15) OpenUp U3 - Measuring Circles	Unit 6 2 weeks April Filling & Wrapping - volume and surface area of prisms PT Yum Yum Cereal OpenUp U7 - Angles, Triangles, and Prisms (Lessons 11-16)	Unit 7 3 weeks April - May Samples & Populations - data analyzation, sampling methods Include: biased and unbiased samples and survey questions OpenUp U8 - Probability and Sampling	Unit 8 1 week May - June What Do You Expect - probability OpenUp U8 - Probability and Sampling OpenUp U9 - Putting It All Together



Develop and use algorithms for rational operations; Solve problems using rational numbers	Recognize linear relationships by constant rate of change; Understand equality and develop algebra skills	Understand similar figures; Analyze changes in area and perimeter	Ratios, Rates, and Percent; Develop and use strategies for solving problems requiring proportional reasoning	2D Geometry; Understand and analyze properties and relations; area and circumference of circles	Understand measuring surface area, volume, and; Extend similarity and scale factor to 3-D figures	Deepen understanding of the process of statistical investigation and apply to sampling; Explore measures of central tendency	Experimental and theoretical probabilities; Make connections between probability, rational numbers, geometry, stats, science, & business
7.NS.1, 2, 3 7.EE.A.1	7.RP.2 7.EE.1, 2, 3, 4a, 4b	7.RP.2 a, b, 3 7.EE.3, 4a 7.G.1	7.RP.1, 2, 3 7.NS.3 7.EE.3, 4a	7.EE.2, 4 7.G.2 to 7.G.6	7.NS.3 7.EE.1, 2 7.G.1, 3, 4, 6	7.RP.2 7.NS.1 7.SP.1 to 7.SP.7a	7.RP.2a, 3 7.RP.3 7.SP.5, 6, 7, 8
Math Milestones 7:1, 7:3, 7:5 7:9	7:6, 7:8, 7:13, 7:14	7:2	7:1, 7:7	7:13 7:14			7:4

Domains: *RP: Ratios and Proportional Relationships; NS: Number System; EE: Expressions & Equations; SP: Statistics & Probability; G: Geometry*

[Math Milestones](#)

For Grade Seven Mathematics, instructional time should focus on four [critical areas](#):

- (1) Developing understanding of and applying proportional relationships.
- (2) Developing understanding of operations with rational numbers and working with expressions and linear equations.
- (3) Solve problems involving scale drawings and informal geometric constructions, and working with two- and three- dimensional shapes to solve problems involving area, surface area, and volume.
- (4) Drawing inferences about populations based on samples

Mathematical Practices 1-3-6 = connections to EL/ELD and NGSS standards: See Overview Curriculum Guide for details of grade expectations

MP1: Make sense of problems and persevere in solving them

MP2: Reason abstractly and quantitatively

MP3: Construct viable arguments and critique the reasoning of others

MP4: Model with mathematics

MP5: Use appropriate tools

MP6: Attend to precision

MP7: Look for and make use of structure

MP8: Look for and express regularity in repeated reasoning

[Detailed GVC Guide](#)



SANTA MONICA-MALIBU UNIFIED SCHOOL DISTRICT